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<151> 2002-07-12
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<211> 95
<212> PRT
<213> Homo sapiens
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Ile Lys His Val Pro Gly Gly Ser Val Gln Ile Val Tyr Lys Pro
1 5 10 15

Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile
20 25 30

His His Lys Pro Gly Gly Gln Val Glu Val Lys Ser Glu Lys Leu
35 40 45

Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile
50 55 60

Thr His Val Pro Gly Gly Asn Lys Lys Ile Glu Thr His Lys Leu
65 70 75 80

Thr Phe Arg Glu Asn Ala Lys Ala Lys Thr Asp His Gly Ala Glu
85 90 95

<210> 2
<211> 97
<212> PRT
<213> Homo sapiens
<400> 2

Asp Asn Ile Lys His Val Pro Gly Gly Ser Val Gln Ile Val Tyr
1 5 10 15

Lys Pro Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly
20 25 30

Asn Ile His His Lys Pro Gly Gly Gln Val Glu Val Lys Ser Glu
35 40 45

Lys Leu Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp
50 55 60

Asn Ile Thr His Val Pro Gly Gly Asn Lys Lys Ile Glu Thr His
65 70 75 80

Lys Leu Thr Phe Arg Glu Asn Ala Lys Ala Lys Thr Asp His Gly Ala
85 90 95

Glu

<210> 3
<211> 80
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<213> Homo sapiens

<400> 3

Ile Lys His Val Pro Gly Gly Ser Val Gln Ile Val Tyr Lys Pro
1 5 10 15

Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile
20 25 30

His His Lys Pro Gly Gly Gln Val Glu Val Lys Ser Glu Lys Leu
35 40 45

Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile
50 55 60

Thr His Val Pro Gly Gly Asn Lys Lys Ile Glu Thr His Lys Leu
65 70 75 80

<210> 4
<211> 88
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<213> Homo sapiens

<400> 4

Ile Lys His Val Pro Gly Gly Ser Val Gln Ile Val Tyr Lys Pro

1

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Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile
20 25 30

His His Lys Pro Gly Gly Gln Val Glu Val Lys Ser Glu Lys Leu
35 40 45

Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile
50 55 60

Thr His Val Pro Gly Gly Asn Lys Lys Ile Glu Thr His Lys Leu
65 70 75 80

Thr Phe Arg Glu Asn Ala Lys Ala
85

<210> 5
<211> 90
<212> PRT
<213> Homo sapiens

<400> 5

Ile Lys His Val Pro Gly Gly Ser Val Gln Ile Val Tyr Lys Pro
1 5 10 15

Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile
20 25 30

His His Lys Pro Gly Gly Gln Val Glu Val Lys Ser Glu Lys Leu
35 40 45

Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile
50 55 60

Thr His Val Pro Gly Gly Asn Lys Lys Ile Glu Thr His Lys Leu
65 70 75 80

Thr Phe Arg Glu Asn Ala Lys Ala Lys Thr
85 90

<210> 6
<211> 93
<212> PRT
<213> Homo sapiens

<400> 6

Ile Lys His Val Pro Gly Gly Ser Val Gln Ile Val Tyr Lys Pro
1 5 10 15

Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile
20 25 30

His His Lys Pro Gly Gly Gln Val Glu Val Lys Ser Glu Lys Leu
35 40 45

Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile
50 55 60

Thr His Val Pro Gly Gly Asn Lys Lys Ile Glu Thr His Lys Leu
65 70 75 80

Thr Phe Arg Glu Asn Ala Lys Ala Lys Thr Asp His Gly
85 90

<210> 7
<211> 96
<212> PRT
<213> Homo sapiens

<400> 7

Ile Lys His Val Pro Gly Gly Ser Val Gln Ile Val Tyr Lys Pro
1 5 10 15

Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile
20 25 30

His His Lys Pro Gly Gly Gln Val Glu Val Lys Ser Glu Lys Leu
35 40 45

Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile
50 55 60

Thr His Val Pro Gly Gly Asn Lys Lys Ile Glu Thr His Lys Leu
65 70 75 80

Thr Phe Arg Glu Asn Ala Lys Ala Lys Thr Asp His Gly Ala Glu Ile
85 90 95

<210> 8
<211> 102
<212> PRT
<213> Homo sapiens

<400> 8

Ile Lys His Val Pro Gly Gly Ser Val Gln Ile Val Tyr Lys Pro
1 5 10 15

Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile
20 25 30

His His Lys Pro Gly Gly Gln Val Glu Val Lys Ser Glu Lys Leu
35 40 45

Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile
50 55 60

Thr His Val Pro Gly Gly Asn Lys Lys Ile Glu Thr His Lys Leu
65 70 75 80

Thr Phe Arg Glu Asn Ala Lys Ala Lys Thr Asp His Gly Ala Glu Ile
85 90 95

Val Tyr Lys Ser Pro Val
100

<210> 9
<211> 105
<212> PRT
<213> Homo sapiens

<400> 9

Ile Lys His Val Pro Gly Gly Ser Val Gln Ile Val Tyr Lys Pro
1 5 10 15

Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile
20 25 30

His His Lys Pro Gly Gly Gln Val Glu Val Lys Ser Glu Lys Leu
35 40 45

Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile
50 55 60

Thr His Val Pro Gly Gly Asn Lys Lys Ile Glu Thr His Lys Leu
65 70 75 80

Thr Phe Arg Glu Asn Ala Lys Ala Lys Thr Asp His Gly Ala Glu Ile
85 90 95

Val Tyr Lys Ser Pro Val Val Ser Gly

100

105

<210> 10
<211> 95
<212> PRT
<213> Homo sapiens

<400> 10

Leu Lys His Gln Pro Gly Gly Gly Lys Val Gln Ile Val Tyr Lys Pro
1 5 10 15

Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile
20 25 30

His His Lys Pro Gly Gly Gln Val Glu Val Lys Ser Glu Lys Leu
35 40 45

Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile
50 55 60

Thr His Val Pro Gly Gly Asn Lys Lys Ile Glu Thr His Lys Leu
65 70 75 80

Thr Phe Arg Glu Asn Ala Lys Ala Lys Thr Asp His Gly Ala Glu
85 90 95

<210> 11
<211> 265
<212> PRT
<213> Homo sapiens

<400> 11

Met Val Ser Lys Ser Lys Asp Gly Thr Gly Ser Asp Asp Lys Ala
1 5 10 15

Lys Gly Ala Asp Gly Lys Thr Lys Ile Ala Thr Pro Arg Gly Ala Ala
20 25 30

Pro Pro Gly Gln Lys Gly Gln Ala Asn Ala Thr Arg Ile Pro Ala Lys
35 40 45

Thr Pro Pro Ala Pro Lys Thr Pro Pro Ser Ser Gly Glu Pro Pro Lys
50 55 60

Ser Gly Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser Pro Gly Thr Pro
65 70 75 80

Gly Ser Arg Ser Arg Thr Pro Ser Leu Pro Thr Pro Pro Thr Arg Glu
85 90 95

Pro Lys Lys Val Ala Val Val Arg Thr Pro Pro Lys Ser Pro Ser Ser
100 105 110

Ala Lys Ser Arg Leu Gln Thr Ala Pro Val Pro Met Pro Asp Leu Lys
115 120 125

Asn Val Lys Ser Lys Ile Gly Ser Thr Glu Asn Leu Lys His Gln Pro
130 135 140

Gly Gly Gly Lys Val Gln Ile Ile Asn Lys Lys Leu Asp Leu Ser Asn
145 150 155 160

Val Gln Ser Lys Cys Gly Ser Lys Asp Asn Ile Lys His Val Pro Gly
165 170 175

Gly Gly Ser Val Gln Ile Val Tyr Lys Pro Val Asp Leu Ser Lys Val
180 185 190

Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile His His Lys Pro Gly Gly
195 200 205

Gly Gln Val Glu Val Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg Val
210 215 220

Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile Thr His Val Pro Gly Gly
225 230 235 240

Gly Asn Lys Lys Ile Glu Thr His Lys Leu Thr Phe Arg Glu Asn Ala
245 250 255

Lys Ala Lys Thr Asp His Gly Ala Glu
260 265

<210> 12
<211> 241
<212> PRT
<213> Homo sapiens

<400> 12

Ile Ala Thr Pro Arg Gly Ala Ala Pro Pro Gly Gln Lys Gly Gln Ala
1 5 10 15

Asn Ala Thr Arg Ile Pro Ala Lys Thr Pro Pro Ala Pro Lys Thr Pro
20 25 30

Pro Ser Ser Gly Glu Pro Pro Lys Ser Gly Asp Arg Ser Gly Tyr Ser
35 40 45

Ser Pro Gly Ser Pro Gly Thr Pro Gly Ser Arg Ser Arg Thr Pro Ser
50 55 60

Leu Pro Thr Pro Pro Thr Arg Glu Pro Lys Lys Val Ala Val Val Arg
65 70 75 80

Thr Pro Pro Lys Ser Pro Ser Ser Ala Lys Ser Arg Leu Gln Thr Ala
85 90 95

Pro Val Pro Met Pro Asp Leu Lys Asn Val Lys Ser Lys Ile Gly Ser
100 105 110

Thr Glu Asn Leu Lys His Gln Pro Gly Gly Lys Val Gln Ile Ile
115 120 125

Asn Lys Lys Leu Asp Leu Ser Asn Val Gln Ser Lys Cys Gly Ser Lys
130 135 140

Asp Asn Ile Lys His Val Pro Gly Gly Ser Val Gln Ile Val Tyr
145 150 155 160

Lys Pro Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly
165 170 175

Asn Ile His His Lys Pro Gly Gly Gln Val Glu Val Lys Ser Glu
180 185 190

Lys Leu Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp
195 200 205

Asn Ile Thr His Val Pro Gly Gly Asn Lys Lys Ile Glu Thr His
210 215 220

Lys Leu Thr Phe Arg Glu Asn Ala Lys Ala Lys Thr Asp His Gly Ala
225 230 235 240

Glu

<210> 13
<211> 295
<212> PRT

<213> Homo sapiens

<400> 13

Met Val Ser Lys Ser Lys Asp Gly Thr Gly Ser Asp Asp Lys Lys Ala
1 5 10 15

Lys Gly Ala Asp Gly Lys Thr Lys Ile Ala Thr Pro Arg Gly Ala Ala
20 25 30

Pro Pro Gly Gln Lys Gly Gln Ala Asn Ala Thr Arg Ile Pro Ala Lys
35 40 45

Thr Pro Pro Ala Pro Lys Thr Pro Pro Ser Ser Gly Glu Pro Pro Lys
50 55 60

Ser Gly Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser Pro Gly Thr Pro
65 70 75 80

Gly Ser Arg Ser Arg Thr Pro Ser Leu Pro Thr Pro Pro Thr Arg Glu
85 90 95

Pro Lys Lys Val Ala Val Val Arg Thr Pro Pro Lys Ser Pro Ser Ser
100 105 110

Ala Lys Ser Arg Leu Gln Thr Ala Pro Val Pro Met Pro Asp Leu Lys
115 120 125

Asn Val Lys Ser Lys Ile Gly Ser Thr Glu Asn Leu Lys His Gln Pro
130 135 140

Gly Gly Gly Lys Val Gln Ile Ile Asn Lys Lys Leu Asp Leu Ser Asn
145 150 155 160

Val Gln Ser Lys Cys Gly Ser Lys Asp Asn Ile Lys His Val Pro Gly
165 170 175

Gly Gly Ser Val Gln Ile Val Tyr Lys Pro Val Asp Leu Ser Lys Val
180 185 190

Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile His His Lys Pro Gly Gly
195 200 205

Gly Gln Val Glu Val Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg Val
210 215 220

Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile Thr His Val Pro Gly Gly

225

230

235

240

Gly Asn Lys Lys Ile Glu Thr His Lys Leu Thr Phe Arg Glu Asn Ala
245 250 255

Lys Ala Lys Thr Asp His Gly Ala Glu Ile Val Tyr Lys Ser Pro Val
260 265 270

Val Ser Gly Asp Thr Ser Pro Arg His Leu Ser Asn Val Ser Ser Thr
275 280 285

Gly Ser Ile Asp Met Val Asp
290 295

<210> 14
<211> 271
<212> PRT
<213> Homo sapiens

<400> 14

Ile Ala Thr Pro Arg Gly Ala Ala Pro Pro Gly Gln Lys Gly Gln Ala
1 5 10 15

Asn Ala Thr Arg Ile Pro Ala Lys Thr Pro Pro Ala Pro Lys Thr Pro
20 25 30

Pro Ser Ser Gly Glu Pro Pro Lys Ser Gly Asp Arg Ser Gly Tyr Ser
35 40 45

Ser Pro Gly Ser Pro Gly Thr Pro Gly Ser Arg Ser Arg Thr Pro Ser
50 55 60

Leu Pro Thr Pro Pro Thr Arg Glu Pro Lys Lys Val Ala Val Val Arg
65 70 75 80

Thr Pro Pro Lys Ser Pro Ser Ser Ala Lys Ser Arg Leu Gln Thr Ala
85 90 95

Pro Val Pro Met Pro Asp Leu Lys Asn Val Lys Ser Lys Ile Gly Ser
100 105 110

Thr Glu Asn Leu Lys His Gln Pro Gly Gly Lys Val Gln Ile Ile
115 120 125

Asn Lys Lys Leu Asp Leu Ser Asn Val Gln Ser Lys Cys Gly Ser Lys
130 135 140

Asp Asn Ile Lys His Val Pro Gly Gly Ser Val Gln Ile Val Tyr
145 150 155 160

Lys Pro Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly
165 170 175

Asn Ile His His Lys Pro Gly Gly Gln Val Glu Val Lys Ser Glu
180 185 190

Lys Leu Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp
195 200 205

Asn Ile Thr His Val Pro Gly Gly Asn Lys Lys Ile Glu Thr His
210 215 220

Lys Leu Thr Phe Arg Glu Asn Ala Lys Ala Lys Thr Asp His Gly Ala
225 230 235 240

Glu Ile Val Tyr Lys Ser Pro Val Val Ser Gly Asp Thr Ser Pro Arg
245 250 255

His Leu Ser Asn Val Ser Ser Thr Gly Ser Ile Asp Met Val Asp
260 265 270

<210> 15
<211> 210
<212> PRT
<213> Homo sapiens

<400> 15

Ile Ala Thr Pro Arg Gly Ala Ala Pro Pro Gly Gln Lys Gly Gln Ala
1 5 10 15

Asn Ala Thr Arg Ile Pro Ala Lys Thr Pro Pro Ala Pro Lys Thr Pro
20 25 30

Pro Ser Ser Gly Glu Pro Pro Lys Ser Gly Asp Arg Ser Gly Tyr Ser
35 40 45

Ser Pro Gly Ser Pro Gly Thr Pro Gly Ser Arg Ser Arg Thr Pro Ser
50 55 60

Leu Pro Thr Pro Pro Thr Arg Glu Pro Lys Lys Val Ala Val Val Arg
65 70 75 80

Thr Pro Pro Lys Ser Pro Ser Ser Ala Lys Ser Arg Leu Gln Thr Ala

85

90

95

Pro Val Pro Met Pro Asp Leu Lys Asn Val Lys Ser Lys Ile Gly Ser
100 105 110

Thr Glu Asn Leu Lys His Gln Pro Gly Gly Gly Lys Val Gln Ile Val
115 120 125

Tyr Lys Pro Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu
130 135 140

Gly Asn Ile His His Lys Pro Gly Gly Gly Gln Val Glu Val Lys Ser
145 150 155 160

Glu Lys Leu Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu
165 170 175

Asp Asn Ile Thr His Val Pro Gly Gly Asn Lys Lys Ile Glu Thr
180 185 190

His Lys Leu Thr Phe Arg Glu Asn Ala Lys Ala Lys Thr Asp His Gly
195 200 205

Ala Glu
210

<210> 16
<211> 234
<212> PRT
<213> Homo sapiens

<400> 16

Met Val Ser Lys Ser Lys Asp Gly Thr Gly Ser Asp Asp Lys Lys Ala
1 5 10 15

Lys Gly Ala Asp Gly Lys Thr Lys Ile Ala Thr Pro Arg Gly Ala Ala
20 25 30

Pro Pro Gly Gln Lys Gly Gln Ala Asn Ala Thr Arg Ile Pro Ala Lys
35 40 45

Thr Pro Pro Ala Pro Lys Thr Pro Pro Ser Ser Gly Glu Pro Pro Lys
50 55 60

Ser Gly Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser Pro Gly Thr Pro
65 70 75 80

Gly Ser Arg Ser Arg Thr Pro Ser Leu Pro Thr Pro Pro Thr Arg Glu
85 90 95

Pro Lys Lys Val Ala Val Val Arg Thr Pro Pro Lys Ser Pro Ser Ser
100 105 110

Ala Lys Ser Arg Leu Gln Thr Ala Pro Val Pro Met Pro Asp Leu Lys
115 120 125

Asn Val Lys Ser Lys Ile Gly Ser Thr Glu Asn Leu Lys His Gln Pro
130 135 140

Gly Gly Gly Lys Val Gln Ile Val Tyr Lys Pro Val Asp Leu Ser Lys
145 150 155 160

Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile His His Lys Pro Gly
165 170 175

Gly Gly Gln Val Glu Val Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg
180 185 190

Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile Thr His Val Pro Gly
195 200 205

Gly Gly Asn Lys Lys Ile Glu Thr His Lys Leu Thr Phe Arg Glu Asn
210 215 220

Ala Lys Ala Lys Thr Asp His Gly Ala Glu
225 230

<210> 17
<211> 240
<212> PRT
<213> Homo sapiens

<400> 17

Ile Ala Thr Pro Arg Gly Ala Ala Pro Pro Gly Gln Lys Gly Gln Ala
1 5 10 15

Asn Ala Thr Arg Ile Pro Ala Lys Thr Pro Pro Ala Pro Lys Thr Pro
20 25 30

Pro Ser Ser Gly Glu Pro Pro Lys Ser Gly Asp Arg Ser Gly Tyr Ser
35 40 45

Ser Pro Gly Ser Pro Gly Thr Pro Gly Ser Arg Ser Arg Thr Pro Ser

50

55

60

Leu Pro Thr Pro Pro Thr Arg Glu Pro Lys Lys Val Ala Val Val Arg
65 70 75 80

Thr Pro Pro Lys Ser Pro Ser Ser Ala Lys Ser Arg Leu Gln Thr Ala
85 90 95

Pro Val Pro Met Pro Asp Leu Lys Asn Val Lys Ser Lys Ile Gly Ser
100 105 110

Thr Glu Asn Leu Lys His Gln Pro Gly Gly Lys Val Gln Ile Val
115 120 125

Tyr Lys Pro Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu
130 135 140

Gly Asn Ile His His Lys Pro Gly Gly Gln Val Glu Val Lys Ser
145 150 155 160

Glu Lys Leu Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu
165 170 175

Asp Asn Ile Thr His Val Pro Gly Gly Asn Lys Lys Ile Glu Thr
180 185 190

His Lys Leu Thr Phe Arg Glu Asn Ala Lys Ala Lys Thr Asp His Gly
195 200 205

Ala Glu Ile Val Tyr Lys Ser Pro Val Val Ser Gly Asp Thr Ser Pro
210 215 220

Arg His Leu Ser Asn Val Ser Ser Thr Gly Ser Ile Asp Met Val Asp
225 230 235 240

<210> 18
<211> 264
<212> PRT
<213> Homo sapiens

<400> 18

Met Val Ser Lys Ser Lys Asp Gly Thr Gly Ser Asp Asp Lys Lys Ala
1 5 10 15

Lys Gly Ala Asp Gly Lys Thr Lys Ile Ala Thr Pro Arg Gly Ala Ala
20 25 30

Pro Pro Gly Gln Lys Gly Gln Ala Asn Ala Thr Arg Ile Pro Ala Lys
35 40 45

Thr Pro Pro Ala Pro Lys Thr Pro Pro Ser Ser Gly Glu Pro Pro Lys
50 55 60

Ser Gly Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser Pro Gly Thr Pro
65 70 75 80

Gly Ser Arg Ser Arg Thr Pro Ser Leu Pro Thr Pro Pro Thr Arg Glu
85 90 95

Pro Lys Lys Val Ala Val Val Arg Thr Pro Pro Lys Ser Pro Ser Ser
100 105 110

Ala Lys Ser Arg Leu Gln Thr Ala Pro Val Pro Met Pro Asp Leu Lys
115 120 125

Asn Val Lys Ser Lys Ile Gly Ser Thr Glu Asn Leu Lys His Gln Pro
130 135 140

Gly Gly Gly Lys Val Gln Ile Val Tyr Lys Pro Val Asp Leu Ser Lys
145 150 155 160

Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile His His Lys Pro Gly
165 170 175

Gly Gly Gln Val Glu Val Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg
180 185 190

Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile Thr His Val Pro Gly
195 200 205

Gly Gly Asn Lys Lys Ile Glu Thr His Lys Leu Thr Phe Arg Glu Asn
210 215 220

Ala Lys Ala Lys Thr Asp His Gly Ala Glu Ile Val Tyr Lys Ser Pro
225 230 235 240

Val Val Ser Gly Asp Thr Ser Pro Arg His Leu Ser Asn Val Ser Ser
245 250 255

Thr Gly Ser Ile Asp Met Val Asp
260

<210> 19
<211> 373
<212> PRT
<213> Homo sapiens

<400> 19

Gln Glu Phe Glu Val Met Glu Asp His Ala Gly Thr Tyr Gly Leu Gly
1 5 10 15

Asp Arg Lys Asp Gln Gly Gly Tyr Thr Met His Gln Asp Gln Glu Gly
20 25 30

Asp Thr Asp Ala Gly Leu Lys Ala Glu Glu Ala Gly Ile Gly Asp Thr
35 40 45

Pro Ser Leu Glu Asp Glu Ala Ala Gly His Val Thr Gln Ala Arg Met
50 55 60

Val Ser Lys Ser Lys Asp Gly Thr Gly Ser Asp Asp Lys Lys Ala Lys
65 70 75 80

Gly Ala Asp Gly Lys Thr Lys Ile Ala Thr Pro Arg Gly Ala Ala Pro
85 90 95

Pro Gly Gln Lys Gly Gln Ala Asn Ala Thr Arg Ile Pro Ala Lys Thr
100 105 110

Pro Pro Ala Pro Lys Thr Pro Pro Ser Ser Gly Glu Pro Pro Lys Ser
115 120 125

Gly Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser Pro Gly Thr Pro Gly
130 135 140

Ser Arg Ser Arg Thr Pro Ser Leu Pro Thr Pro Pro Thr Arg Glu Pro
145 150 155 160

Lys Lys Val Ala Val Val Arg Thr Pro Pro Lys Ser Pro Ser Ser Ala
165 170 175

Lys Ser Arg Leu Gln Thr Ala Pro Val Pro Met Pro Asp Leu Lys Asn
180 185 190

Val Lys Ser Lys Ile Gly Ser Thr Glu Asn Leu Lys His Gln Pro Gly
195 200 205

Gly Gly Lys Val Gln Ile Ile Asn Lys Lys Leu Asp Leu Ser Asn Val
210 215 220

Gln Ser Lys Cys Gly Ser Lys Asp Asn Ile Lys His Val Pro Gly Gly
225 230 235 240

Gly Ser Val Gln Ile Val Tyr Lys Pro Val Asp Leu Ser Lys Val Thr
245 250 255

Ser Lys Cys Gly Ser Leu Gly Asn Ile His His Lys Pro Gly Gly Gly
260 265 270

Gln Val Glu Val Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg Val Gln
275 280 285

Ser Lys Ile Gly Ser Leu Asp Asn Ile Thr His Val Pro Gly Gly Gly
290 295 300

Asn Lys Lys Ile Glu Thr His Lys Leu Thr Phe Arg Glu Asn Ala Lys
305 310 315 320

Ala Lys Thr Asp His Gly Ala Glu Ile Val Tyr Lys Ser Pro Val Val
325 330 335

Ser Gly Asp Thr Ser Pro Arg His Leu Ser Asn Val Ser Ser Thr Gly
340 345 350

Ser Ile Asp Met Val Asp Ser Pro Gln Leu Ala Thr Leu Ala Asp Glu
355 360 365

Val Ser Ala Ser Leu
370

<210> 20
<211> 342
<212> PRT
<213> Homo sapiens

<400> 20

Gln Glu Phe Glu Val Met Glu Asp His Ala Gly Thr Tyr Gly Leu Gly
1 5 10 15

Asp Arg Lys Asp Gln Gly Gly Tyr Thr Met His Gln Asp Gln Glu Gly
20 25 30

Asp Thr Asp Ala Gly Leu Lys Ala Glu Glu Ala Gly Ile Gly Asp Thr
35 40 45

Pro Ser Leu Glu Asp Glu Ala Ala Gly His Val Thr Gln Ala Arg Met
50 55 60

Val Ser Lys Ser Lys Asp Gly Thr Gly Ser Asp Asp Lys Lys Ala Lys
65 70 75 80

Gly Ala Asp Gly Lys Thr Lys Ile Ala Thr Pro Arg Gly Ala Ala Pro
85 90 95

Pro Gly Gln Lys Gly Gln Ala Asn Ala Thr Arg Ile Pro Ala Lys Thr
100 105 110

Pro Pro Ala Pro Lys Thr Pro Pro Ser Ser Gly Glu Pro Pro Lys Ser
115 120 125

Gly Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser Pro Gly Thr Pro Gly
130 135 140

Ser Arg Ser Arg Thr Pro Ser Leu Pro Thr Pro Pro Thr Arg Glu Pro
145 150 155 160

Lys Lys Val Ala Val Val Arg Thr Pro Pro Lys Ser Pro Ser Ser Ala
165 170 175

Lys Ser Arg Leu Gln Thr Ala Pro Val Pro Met Pro Asp Leu Lys Asn
180 185 190

Val Lys Ser Lys Ile Gly Ser Thr Glu Asn Leu Lys His Gln Pro Gly
195 200 205

Gly Gly Lys Val Gln Ile Val Tyr Lys Pro Val Asp Leu Ser Lys Val
210 215 220

Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile His His Lys Pro Gly Gly
225 230 235 240

Gly Gln Val Glu Val Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg Val
245 250 255

Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile Thr His Val Pro Gly Gly
260 265 270

Gly Asn Lys Lys Ile Glu Thr His Lys Leu Thr Phe Arg Glu Asn Ala
275 280 285

Lys Ala Lys Thr Asp His Gly Ala Glu Ile Val Tyr Lys Ser Pro Val

290

295

300

Val Ser Gly Asp Thr Ser Pro Arg His Leu Ser Asn Val Ser Ser Thr
305 310 315 320

Gly Ser Ile Asp Met Val Asp Ser Pro Gln Leu Ala Thr Leu Ala Asp
325 330 335

Glu Val Ser Ala Ser Leu
340

<210> 21
<211> 66
<212> PRT
<213> Homo sapiens

<400> 21

Gly Asn Ile His His Lys Pro Gly Gly Gly Gln Val Glu Val Lys Ser
1 5 10 15

Glu Lys Leu Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu
20 25 30

Asp Asn Ile Thr His Val Pro Gly Gly Asn Lys Lys Ile Glu Thr
35 40 45

His Lys Leu Thr Phe Arg Glu Asn Ala Lys Ala Lys Thr Asp His Gly
50 55 60

Ala Glu
65

<210> 22
<211> 86
<212> PRT
<213> Homo sapiens

<400> 22

Val Gln Ile Val Tyr Lys Pro Val Asp Leu Ser Lys Val Thr Ser Lys
1 5 10 15

Cys Gly Ser Leu Gly Asn Ile His His Lys Pro Gly Gly Gln Val
20 25 30

Glu Val Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg Val Gln Ser Lys
35 40 45

Ile Gly Ser Leu Asp Asn Ile Thr His Val Pro Gly Gly Gly Asn Lys
50 55 60

Lys Ile Glu Thr His Lys Leu Thr Phe Arg Glu Asn Ala Lys Ala Lys
65 70 75 80

Thr Asp His Gly Ala Glu
85

<210> 23
<211> 76
<212> PRT
<213> Homo sapiens

<400> 23

Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile His His Lys
1 5 10 15

Pro Gly Gly Gln Val Glu Val Lys Ser Glu Lys Leu Asp Phe Lys
20 25 30

Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile Thr His Val
35 40 45

Pro Gly Gly Asn Lys Lys Ile Glu Thr His Lys Leu Thr Phe Arg
50 55 60

Glu Asn Ala Lys Ala Lys Thr Asp His Gly Ala Glu
65 70 75

<210> 24
<211> 71
<212> PRT
<213> Homo sapiens

<400> 24

Lys Cys Gly Ser Leu Gly Asn Ile His His Lys Pro Gly Gly Gln
1 5 10 15

Val Glu Val Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg Val Gln Ser
20 25 30

Lys Ile Gly Ser Leu Asp Asn Ile Thr His Val Pro Gly Gly Gly Asn
35 40 45

Lys Lys Ile Glu Thr His Lys Leu Thr Phe Arg Glu Asn Ala Lys Ala
50 55 60

Lys Thr Asp His Gly Ala Glu
65 70

<210> 25
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<213> Homo sapiens

<400> 25

Ile Lys His Val Pro Gly Gly Lys Cys Gly Ser Leu Gly Asn Ile
1 5 10 15

His His Lys Pro Gly Gly Gln Val Glu Val Lys Ser Glu Lys Leu
20 25 30

Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile
35 40 45

Thr His Val Pro Gly Gly Asn Lys Lys Ile Glu Thr His Lys Leu
50 55 60

Thr Phe Arg Glu Asn Ala Lys Ala Lys Thr Asp His Gly Ala Glu
65 70 75

<210> 26
<211> 88
<212> PRT
<213> Homo sapiens

<400> 26

Ile Lys His Val Pro Gly Gly Ser Val Gln Ile Val Tyr Lys Pro
1 5 10 15

Val Lys Cys Gly Ser Leu Gly Asn Ile His His Lys Pro Gly Gly
20 25 30

Gln Val Glu Val Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg Val Gln
35 40 45

Ser Lys Ile Gly Ser Leu Asp Asn Ile Thr His Val Pro Gly Gly
50 55 60

Asn Lys Lys Ile Glu Thr His Lys Leu Thr Phe Arg Glu Asn Ala Lys
65 70 75 80

Ala Lys Thr Asp His Gly Ala Glu
85

<210> 27
<211> 90
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<400> 27

Ile Lys His Val Pro Gly Gly Ser Val Gln Ile Val Tyr Lys Pro
1 5 10 15

Val Asp Leu Ser Lys Val Thr Ser Gly Asn Ile His His Lys Pro Gly
20 25 30

Gly Gly Gln Val Glu Val Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg
35 40 45

Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile Thr His Val Pro Gly
50 55 60

Gly Gly Asn Lys Lys Ile Glu Thr His Lys Leu Thr Phe Arg Glu Asn
65 70 75 80

Ala Lys Ala Lys Thr Asp His Gly Ala Glu
85 90

<210> 28
<211> 29
<212> PRT
<213> Homo sapiens

<400> 28

Ile Lys His Val Pro Gly Gly Ser Val Gln Ile Val Tyr Lys Pro
1 5 10 15

Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu
20 25

<210> 29
<211> 9
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